

PRE-FANS SERVICES

ENHANCING AIR NAVIGATION SERVICES SAFETY AND EFFICIENCY

The use of datalink contributes to maintaining and enhancing air navigation services safety and efficiency during all flight phases. The SITA ATS AIRCOM Pre-FANS services enable air navigation service providers (ANSPs) who deliver Pre-FANS service(s) to communicate with participating aircraft.

ISSUES

Voice operations and procedures shortcomings

Excessive controller and pilot workload, controller-pilot misunderstandings, transcription errors, non-standard phraseology, and frequency congestion are associated with the use of voice operations and procedures.

ICAO datalink endorsement

The International Civil Aviation Organization (ICAO) has endorsed ANSPs' use of air-to-ground datalink as a key enabler to delivering benefits in the performance-based global air traffic management system.

SOLUTION

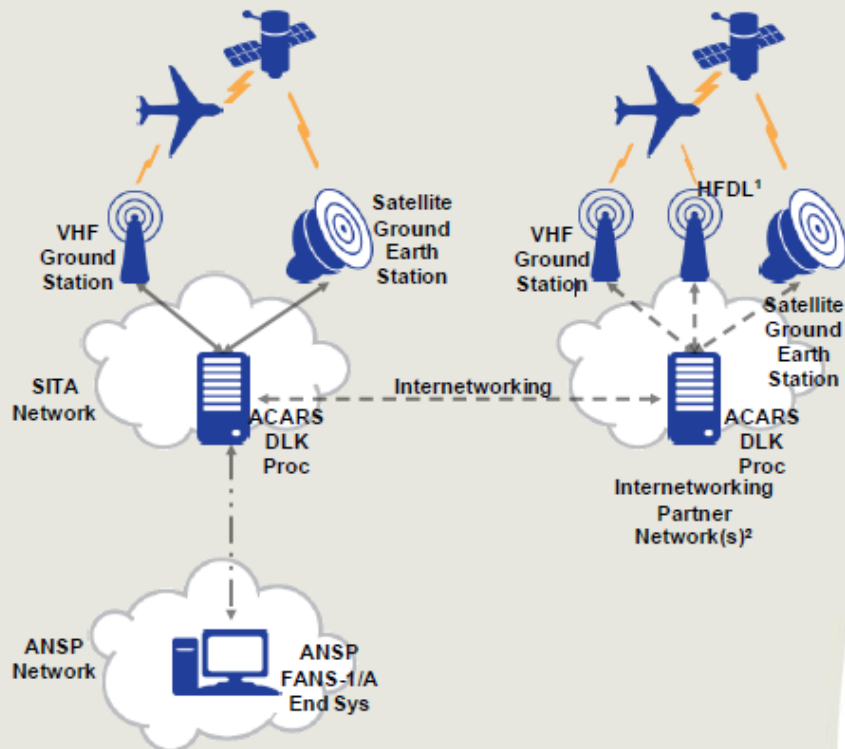
The SITA ATS AIRCOM Pre-FANS service enables ANSPs who deliver Pre-FANS service(s) to communicate with participating aircraft by facilitating access to the SITA datalink network as well as access to other datalink service provider networks through an Internetworking function.

SITA uses the term pre-FANS for the character-oriented ATS applications such as digital-Automatic Terminal Information Service (d-ATIS), Departure Clearance (DCL), and Oceanic Clearance (OCL) which are defined in the AEEC-developed ARINC 620, 622, and 623 specifications and Eurocae ED-85A, 89A, 106A Datalink Application System Documents (DLASDs) as well as digital-Meteorological information for aircraft in flight (D-VOLMET) and pre-Departure Clearance.

BENEFITS

- Use of datalink contributes to maintaining and enhancing air navigation services safety and efficiency during all flight phases.
- For example, datalink can assist in addressing operational shortcomings such as controller-pilot misunderstandings, transcription errors, non-standard phraseology and frequency congestion, which are typically associated with the use of voice operations and procedures.

HOW DOES IT WORK?



SOLUTION COMPONENTS

Required connectivity

The connectivity required to access the SITA datalink infrastructure.

Managed service

The managed service elements include:

- AIRCOM operations service desk 24/7/365 support and monitoring
- AIRCOM specialist technical support
- Service advisories
- Monthly traffic and performance reporting
- Access to aircraft using SITA ACARS datalink service
- ATS Internetworking with other communications service providers to allow access to aircraft using a non-SITA ACARS datalink service
- Customer configuring

CASE STUDY

SITA has been providing pre-FANS services since the 1990s and has extensive pre-FANS experience through its ATS AIRCOM System solutions product development. SITA has many pre-FANS customers worldwide and has contributed to the development of pre-FANS standards.

For more information please contact us at info@sita.aero